

RECENT AMERICAN PATENTS.

The following are some of the most important improvements for which Letters Patent were issued from the United States Patent Office last week; the claims may be found in the official list:—

**Photographic Picture Holder.**—This invention consists in a revolving or movable cylinder or prism the surface of which is divided off into a large number of parts, each capable of holding a photographic or other picture of that size generally used for photographic picture cards or of any other desirable size, in combination with a movable or stationary case surrounding said movable cylinder and provided with windows corresponding severally in size and position to the several tiers of panels in the cylinder in such a manner that, by revolving or moving said cylinder or case, several rows of pictures, one after the other, can be brought opposite the observer, and a large number of pictures can thus be exhibited in a simple and convenient way. James Bucket, of Harlem, N. Y., is the inventor.

**Improvement in Fifes and Flutes.**—The object of this invention is to produce a fife or flute which is so constructed that it serves to play on two or more keys. This object is effected by the application of a revolving finger piece with one or more sets of finger holes, in combination with a long slot extending through the main barrel, in such a manner that by turning the finger piece different sets of finger holes can be brought into action, and the fife or flute is lengthened or shortened for different keys. The length of the barrel is still further adjusted by the use of an adjustable mouth-piece, which is made to slide up or down on the main barrel, said barrel being provided with an oblong hole, so that, by sliding the mouth-piece up or down, the communication between its mouth-hole and the interior of the barrel is not interrupted. The plug which stops up the end of the barrel close over the mouth hole, is connected to the sliding mouth-piece, so that by adjusting said mouth-piece the plug is also adjusted. A. H. Stratton, 31 Maiden Lane, New York, is the inventor.

**Pump for Deep Wells.**

We call attention to the pump patented by Kingston Goddard, of Philadelphia, Pa., on the 11th of April, 1865. This pump is said to be very efficient, and appears to utilize, in the best manner possible, a given weight of metal in the production of a pump rod for deep wells. The piston or pump rod is tubular, and is lightened by the removal of portions, leaving openings, which do not materially detract from its efficiency in other respects.

HOW IS IT DONE?—A foreign exchange mentions a magic toy figure of a man which, when on the ground, immediately commences dancing in perfect time to any tune, astonishing all present, and defying detection. It is sold at 6 pence and 1 shilling, English money. They have also a donkey which dances on a similar principle. Inventors on the watch for novelties for the holidays should look into this subject.

TO OUR READERS.

**PATENT CLAIMS.**—Persons desiring the claim of any invention which has been patented within thirty years, can obtain a copy by addressing a note to this office, stating the name of the patentee and date of patent, when known, and enclosing \$1 as fee for copying. We can also furnish a sketch of any patented machine issued since 1853, to accompany the claim, on receipt of \$2. Address MUNN & CO., Patent Solicitors, No. 37 Park Row, New York.

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**MODELS** are required to accompany applications for Patents under the new law, the same as formerly, except on design patents, when two good drawings are all that are required to accompany the petition, specification and oath, except the Government fee.

**INVARIABLE RULE.**—It is an established rule of this office to stop sending the paper when the time for which it was pre-paid has expired.

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ISSUED FROM THE UNITED STATES PATENT-OFFICE FOR THE WEEK ENDING MAY 2, 1865. Reported Officially for the Scientific American.

Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required and much other information useful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the SCIENTIFIC AMERICAN, New York.

**47,507.—Churn.**—Charles T. Anderson, Clarksburg, Md.: First, I claim the combination of the rod, C, arm, D, link, G, and handle, H, the parts being so arranged that the motion of the handle will be transmitted to both the bellows and dasher, substantially as set forth.

Second, in a chain of the description herein given, I claim the pin, g, and perforations, d, employed as and for the object specified.

**47,508.—Letter Envelope.**—James G. Arnold, Worcester, Mass.: I claim cutting envelope blanks, in the manner and for the purposes substantially as set forth and described.

**47,509.—Sick Chair.**—Charles H. Bagley, Waltham, Mass.: I claim the sliding box, B, provided with the lid, H, and hole, G, in connection with the vessel, K, cover, L, slide, P, and the bar, J, provided with the slotted arm, N, all arranged in connection with a case, A, to operate in the manner substantially as and for the purpose set forth.

[This invention relates to a new and improved sick chair, designed for bed-rooms, and constructed and arranged in such a manner that all unpleasant odor or smell is effectually prevented from escaping therefrom, either while the device is in use or when closed, and the chamber also prevented from emitting any (unpleasant odor while being removed from the chair.)

**47,510.—Manufacture of Steel.**—Julius Baur, Brooklyn, N. Y.: I claim the above-described process, consisting of combining aluminum with iron in the manufacture of steel, substantially as set forth.

**47,511.—Evaporating Pan.**—George Bez, Mukena, Ill.: I claim the combination of fire and steam pans and pipes, as herein set forth and shown, for evaporating sirups.

**47,512.—Sofa Bedstead.**—Elijah Brady, New York City: I claim the combination and arrangement of a sofa with the bed and drawer, substantially as described, for the purposes specified.

**47,513.—Shoe Lacing.**—Mellen Bray, Boston, Mass.: I claim the employment of staples, arranged in opposite pairs, each pair overlapping or interlocking, in combination with a cord, string or wire, or other such flexible or non-flexible locking device.

**47,514.—Corn-planter.**—Joseph T. Bryan, Lebanon, Ind.: I claim, First, The arrangement of the boxes, H H, with their slides, I, I, and apertures, d, d, the cross pieces, b, b, bar, J, lever, K, and tubes in front-shovel-posts, P, P, in combination with the plows, Q, Q, Q, P, and set piece, F, for hilling.

Second, The attachment of the rods, R, R, to the machine, for the purpose of plowing and planting corn.

**47,515.—Photographic Picture-holder.**—James Bucket, Harlem, N. Y.: I claim, First, The movable cylinder or prism, A, or its equivalent, containing a series of panels, b, in combination with a movable or stationary case, B, constructed and operating substantially as and for the purpose set forth.

Second, The bay windows applied to the case, B, in the manner and for the purpose substantially as described.

**47,516.—Machine for Printing Hats.**—Thomas Byrne and Thomas Henry, New York City: We claim the employment or use of the conical printing roller, F, in combination with a suitable pattern roller, B, of any desirable form or shape, and with a mechanism for supplying color, constructed and operating substantially as and for the purpose set forth.

[This invention consists in the employment or use of a conical printing roller, in combination with a suitable pattern roller, to which color is supplied by an endless apron or other mechanism, in such a manner that hats and other articles secured to the conical printing roller, and revolved with it, are brought in contact with the pattern rollers, and continuous stripes or other designs can be produced on said hats or other material, with little loss of time.]

**47,517.—Picker Motion for Looms.**—John Cady, Staffordsville, Conn.: First, I claim the stop, L, constructed and fastened to the bed, H, in the manner substantially as above shown.

Second, I also claim making the bed, H, of a concave form, by means of adjustable ends or inclined planes, substantially as described.

Third, I also claim the mode substantially as above described of attaching the picker staff and its strap to each other, and to the shoe, C.

Fourth, I also claim forming longitudinal grooves, o, inclining in the direction shown on the periphery of the part, q, of the box, Q, for the purpose of lubricating its axis, substantially as shown.

Fifth, I also claim the notched flanch, M, of the part, q, of the box, in combination with the key, T, substantially as above described.

Sixth, I also claim arranging the slot, g, in the bed, H, which receives the key, T, so that the box and its axis can be lubricated from above the said bed, substantially as described.

[This invention consists in a novel mode of constructing and operating the devices which guide the motions of the picker staff.]

**47,518.—Seeding Machine.**—Cyrus C. Carter, Exeter, Ill.: I claim, First, The adjustable tubes, C, fitted in the turning axle, A, and provided with the funnel, G, in combination with the seed-box, E, provided with the reciprocating slide, H, having the pendant plates, I, attached, and the perforated plates, g, h, all arranged to operate as set forth.

Second, The combination of the adjustable tubes, C, turning axle, A, seed-box, E, provided with the slides, f, g, h, the scattering board, M, and the spring lever, K, and notched bar, L, all arranged substantially as set forth.

[This invention relates to a new and improved machine for sowing seed broadcast and in drills, and it consists in a novel arrangement of parts, whereby it is believed many advantages are obtained over the ordinary machines in use.]

**47,519.—Horse Rake.**—P. S. Carver, Honeoye Falls, N. Y.: I claim inclosing the pawls, H I, in the groove, b, of the joint rim,

D, by means of the strap, G, in such a manner as to prevent obstruction, said strap also serving to form the joint and retain the parts together, and used in connection with a single handle, E, the whole arranged, combined and operating substantially as and for the purpose herein set forth.

**47,520.—Coupling for Thills.**—E. D. Clapp, Auburn, N. Y.: I claim the thill iron, constructed in two parts, and with conical perforated bearings, the said two parts being pivoted together and made to overlap one another under the thill, in combination with the clip iron, constructed and arranged as described, all operating in the manner and for the purpose set forth.

**47,521.—Boot and Shoe.**—George P. Clark, Brooklyn, N. Y.: I claim inserting within or attaching to the sole and heel of a boot or shoe, or in and to any desired portion of the same, a series of elastic studs or projections, made of any suitable flexible and elastic material, and of any desired number, size and shape, substantially as described and for the purposes specified.

[This invention consists in fastening within the sole or treading surface of a boot or shoe, a series of projecting elastic india-rubber or gutta-percha studs, the principal object of which is to give an elastic, light and soft-treading surface thereon, as well as to keep the feet warm and dry.]

**47,522.—Crank-wrist Connections.**—James Clayton, Brooklyn, N. Y.: First, I claim the combination of the lining pieces, c, c, having their exterior sides of sloping form, the independent wedge-shaped side pieces, b, b, the screws, d, d, and the nuts, e, e, substantially as and for the purpose herein set forth.

Second, In combination with the said lining pieces, side pieces, screws and nuts, applied to a cross-head, I claim the guides, a, a, provided for the cross-head, substantially as and for the purpose herein described.

**47,523.—Ox Yoke.**—W. R. Close, Bangor, Maine: I claim an improved yoking and adjusting mechanism, as constructed of the supporting saddle, F, the vibrating hanger, C, its catch block, b, its confining screw and nut or nuts, and the curved rack, D, arranged together and applied to the yoke, in manner and so as to operate therewith, substantially as and for the purpose specified.

**47,524.—Awning and Reflector.**—Jos. Cordnan, Brooklyn, N. Y.: I claim the combined awning and reflector, constructed and applied substantially as specified.

**47,525.—Chimney Cap.**—George W. Demond, Boston, Mass.: I claim combining with the vanes, e, the blades, f, extending down into the cylinder, and having open spaces between their inner wedges, substantially as herein set forth.

**47,526.—Paper Fastener.**—Z. W. Denham, Washington, D. C.: I claim the fastener, A B C, substantially in the manner and for the purposes described.

**47,527.—Grinding and Polishing Metals.**—Jas. Dodge, Waterford, N. Y.: First, I claim the method of and machinery apparatus for grinding and polishing spindles, tools, filed blanks and other regular or irregular-shaped articles, substantially as herein described; that is to say, by the employment of two revolving grindstones or polishing wheels, in combination with a mechanism for moving, in accordance with a pattern, the said stones or wheels, or either of them, while revolving and to from each other, substantially as herein set forth.

Second, For grinding and polishing round articles, I claim, in combination with the above causing the said articles, to revolve in contact with the guide stone or polishing wheels, substantially as set forth.

**47,528.—Lock Joint for Railroads.**—Aaron Douglass, Paterson, N. J.: I claim the combination of the three laps, A B C, two formed of portions of the base and head of the rail, and one of a portion of the neck thereof, by dividing the rail in vertical and horizontal planes, and offsetting the neck in a lateral direction between the said horizontal planes, substantially in the form and manner herein specified.

**47,529.—Kerosene Stove.**—Wm. H. Elliot, Plattsburgh, N. Y.: First, I claim so constructing a lamp with its connecting piece, g, and the lower plate of the stove, that the connection between the lamp and stove may be made by sliding the lamp under the stove substantially as described.

Second, Joining the several rings of said connecting piece together substantially as represented at, g, for the purpose set forth.

**47,530.—Oil Pump.**—Wm. H. Elliot, Plattsburgh, N. Y.: First, I claim the main pump, b, applied to the elevation of oil from the well, and the auxiliary pump, g, applied to the exhaustion of gas or air from a higher position in said well cooperating substantially as described.

Second, The auxiliary pumps, p, arranged in relation to the foregoing substantially as shown and described.

Third, A suction or gas pump, g, and gas separator, f, the one arranged above the surface of the earth and the other below the seed-bag or packing, substantially as described.

Fourth, A reversible suction and force gas pump, g, and lifting pump, b, so arranged in relation to the seed-bag or packing and to the surface of the earth substantially as set forth.

**47,531.—Grading Scrapers.**—Charles Evans and Wm. C. Bartlett, Morton, Ill.: We claim the revolving scraper, G, in combination with the stationary mounted frame, A, and lever, E, all arranged substantially as and for the purpose set forth.

We further claim the lever, J, in connection with the wheel, H, or their equivalents, for the purpose specified.

**47,532.—Manufacture of Boxes, Packages, Etc.**—H. Everett, Philadelphia, Pa.: I claim the bent strip, D, applied to the formation of the joints of boxes, packages or other vessels, in the manner described, for the purpose specified.

**47,533.—Fanning Mill.**—Abram Fanckboner, Schoolcraft, Mich.: I claim, First, The arrangement in relation to each other above described of the double screen, B, the inclined board, P, and the divisions, F and G, of the receiving box, E, when the parts are so constructed as to operate in conjunction with each other as herein set forth.

Second, The construction and arrangement of the receiving box, E, substantially as and for the purpose set forth.

**47,534.—Cultivator Plow.**—Jas. R. Finley, Delphi, Ind.: I claim the equal or symmetrical mold boards, when said parts form a continuation of the share, and have the peculiar form and configuration, as set forth and described.

**47,535.—Heat Radiator.**—Darius G. Fletcher, Racine, Wis.: I claim, First, The cast-iron ring, c, and arms, d, for supporting the chamber, B, within the case, A, substantially as and for the purpose specified.

Second, The rectangular openings, e, f, of the upper register of the chamber, B, for the purpose of facilitating the construction of the device.

Third, The cast-iron ring or cover, E, for the space between the chamber, B, and cylinder, as set forth.

[This invention relates to a new and improved heat radiator for stove pipes, and is an improvement on a similar radiator for which letters patent were granted to this inventor, bearing date April 17, 1860.]

**47,536.—Shovel Plow.**—C. Ford, Forest City, Ill.: I claim, First, The mode of making a new-draft two-horse shovel plow, as herein described, with the shafts, F, attached to the frame by the hinges, m and n, and connected by the coupling bar, H, which arrangement, while it holds the shovels evenly, enables the operator to change the face of the shovels at will, and thereby guide the plow.

Second, The false cutters, K, in connection with the braces, I, made to slide in the groove in the head-piece, D, and secured by the clamps,